

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Oak Ridge**

Site Summary Level: **Paducah Gaseous Diffusion Plant**

Project **OR-523 / Paducah Remedial Action**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0143**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

During past operations of the Paducah Gaseous Diffusion Plant (PAD), RCRA-hazardous wastes, hazardous constituents, and hazardous substances were released into the environment. The source areas of these releases are often referred to as solid waste management units (SWMUs) and areas of concern (AOCs). In general, SWMUs and AOCs are typically areas such as burial grounds, spill sites, landfarms, surface impoundments, and underground storage tanks (USTs). Releases from some source areas have migrated into the surrounding soils, and in some cases, to the underlying groundwater and adjacent surface water/sediments.

On October 24, 1992, the President signed the Energy Policy Act of 1992, establishing a new government corporation, USEC, whose charter, effective July 1, 1993, was to assume responsibility for uranium enrichment production at the plant. However, the Act required DOE to retain responsibility for remedial action (RA) of environmental releases, management of legacy wastes, and for D&D. The purpose of this project is to fulfill DOE's obligation to investigate and remediate environmental releases pursuant to the Energy Policy Act, as well as regulatory requirements of the RCRA and CERCLA.

Scope

The PAD Plant was placed on the National Priorities List (NPL) under CERCLA in May of 1994. As a result, a FFA has been negotiated between DOE, EPA, and the Commonwealth of Kentucky to provide a framework for coordinating the environmental cleanup programs of both RCRA and CERCLA. The FFA contains a list of enforceable commitments and long-term projections that serve as the basis for the scope under this PBS. RCRA requirements for PGDP are contained in two separate but related permits. These include a Hazardous Waste Management Permit, issued and administered by the Commonwealth of KY, and the HSWA Permit, issued and administered by the USEPA. These permits were issued on July 16, 1991, and constitute the RCRA Permits for PAD. The permits contain a schedule of compliance for investigation and corrective action for SWMUs, consistent with the FFA.

To date, 209 SWMUs/AOCs have been identified at the PAD Plant. These SWMUs and AOCs have been grouped into operable units and prioritized for the purpose of undergoing the remedial process (e.g., RI/FS, RD/RA). Additionally, the site contains three large groundwater plumes extending off-site which are often referred to as the Northeast and Northwest Plumes. The Northwest Plume contains TCE and Tc-99 and extends about three miles north toward the Ohio River. The Northeast Plume contains primarily TCE, and extends a similar distance from the northeast portion of the plant. Also included in this PBS is the removal of approximately 65,000 tons of scrap metal stored at PGDP.

The current scope does not account for additional remediation, wastes, or S&M activities associated with actual D&D of the Gaseous Diffusion Plant (GDP) once the plant ceases operation. For the purpose of this subproject, it is assumed the GDP continues to operate. When a more definitive schedule is developed for D&D of the GDP, the scope under this PBS will be revised to account for the additional work.

Technical Approach

The ultimate objective of the PAD strategy is to implement actions protective of human health and the environment. The technical approach to

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accomplish that objective varies from facility to facility and is highly dependent on site-specific factors such as land use, contaminants of concern, exposure pathways, and location of receptors. Of those mentioned, proper integration of current and anticipated land use is essential to developing a protective, cost-effective strategy.

The current land use at PAD consists of a mixed industrial and recreational use. Based on the existing lease agreements, privatization of USEC, the complex nature of site contamination, and stakeholder input to date, the current land use of mixed industrial/recreational is also expected to be the most likely future use at the site. Therefore, based on the current and anticipated land use, site remedial objectives have been developed to serve as the framework for establishing operable units.

Accordingly, the solid waste management units (SWMUs) and areas of concern (AOC) at PAD were originally segregated into WAGs based on common characteristics (e.g., contaminants types, media, location, etc.). However, in 1998, DOE further refined its original strategy and grouped the existing WAGs into larger OUs based on site remedial objectives, which are explained in detail in Section 3.2 of the PAD Site Management Plan (DOE/OR/07-1780&D2). This change is intended to maximize opportunities to benefit from regional approaches and economies of scale, reduce documentation costs, and provide a better process to evaluate cumulative affects from all media. The revised strategy establishes a framework for conducting six major operable units in the following priority:

- 1) Groundwater Operable Unit focused on protection of off-site residents
- 2) Surface Water Operable Unit focused on protection of recreational users and ecosystems
- 3) Surface Soils Operable Unit focused on protection of industrial workers
- 4) Burial Grounds Operable Unit focused on protection of industrial workers
- 5) D&D Operable Unit, also focused on protection of industrial workers
- 6) Comprehensive Site Wide Operable Unit

The scope of these potential OUs includes both the suspected source areas and affected media, with data collection and decision-making specifically focused on accomplishing the site remedial objectives. For example, the groundwater OU will specifically focus efforts on addressing COCs presenting a risk to the off-site groundwater users regardless of the media (e.g., soils, groundwater), whereas the proposed action for surface soils will have a specific focus on addressing the COCs located in soils from a 0' to 10' depth that present a direct-contact risk to industrial workers. However, while these actions are intended to be focused in nature, cleanup standards selected under a specific OU should also be protective of other exposure scenarios when applicable. For example, if a groundwater COC is present within the upper 10' of soil, then the cleanup standard should not only be protective of the off-site groundwater user, but it should also reflect protection of an industrial worker from direct contact. In some cases, when a specific SWMU/WAG has the potential to impact multiple pathways/receptors, it may be assigned to two different OUs. Accordingly, the COC's and corresponding soil horizon contributing to groundwater may be addressed under the GWOU, whereas the surficial contamination, presenting a direct contact risk to industrial workers, may be addressed under the Soils OU.

Some OUs contain operating SWMUs and, in some cases, may not be able to be fully characterized or remediated until they cease operation. Therefore, the scope of the RI/FS at operating units may be focused in nature, with emphasis on the migration pathways to determine whether there is a current risk warranting an immediate action. However, the extent of investigation and remedial action for operating units will be determined on a case-by-case basis after consideration of site-specific conditions. In some cases, if the investigation determines there is no immediate risk, additional

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characterization and/or remediation may be deferred to the D&D OU when these units cease operation. Once the D&D OU is complete, a comprehensive site-wide OU (CSOU) will be conducted, which will include a site-wide baseline risk assessment to evaluate any residual risk remaining at the site, and the cumulative effects from all media.

It should be noted that certain types of contamination at PAD may not be able to be effectively remediated to acceptable levels. TCE, which is a dense, nonaqueous-phase liquid (DNAPL), has been released to the environment and migrated downward to the groundwater, forming high concentration pools, thereby serving as long-term sources of groundwater contamination. EPA guidance (OSWER Directive 9234.2-25) published October 4, 1993 discusses the technical impracticability associated with DNAPL remediation. In such cases, containment technologies (e.g., permeable reactive walls) may be more effective at achieving the site remedial goals for groundwater, rather than technologies involving mass removal. However, some innovative technologies currently under evaluation have shown some promise in removing these contaminants. One technology referred to as "Lasagna" was field tested at SWMU 91, and was recently deemed successful. Therefore, full-scale deployment of this technology for SWMU 91 is currently underway. Other promising technologies for DNAPL remediation currently being evaluated include dual-phase extraction, co-solvent/surfactant flushing, in situ oxidation, dynamic underground stripping, and hydrous pyrolysis. The technical approach for these types of source areas will likely include a combination of actions including passive reactive wall technologies for source areas, mass removal for high-concentration areas, and natural attenuation of the dissolved-phased plume. Landfills are assumed to be capped in place with long-term monitoring with the exception of certain burial grounds containing radiological wastes, which are assumed to be excavated.

Project Status in FY 2006:

The remedial actions for Groundwater Operable Unit (OU) will be completed as well as the removal action for scrap metal. The remedial design/remedial action phase for the Surface Water OU will be in progress and the remedial investigation and feasibility study for the Burial Grounds OU will be completed. The remedial investigation, feasibility study, and remedy selection process (i.e., ROD) for the Surface Soils OU will also be completed.

Post-2006 Project Scope:

All remedial action activities are expected to be completed by FY 2010 with the exception of the D&D OU and the Comprehensive Site-Wide OU. Long-term S&M will continue beyond FY 2006 to maintain existing remedial actions.

Project End State

The final end state for the PAD Program will be a long-term S&M with institutional controls. This condition is expected because of existence of several on-site WM units, such as landfills or burial grounds that will be closed or remediated with wastes or contamination remaining in place. Kentucky regulations require a postclosure groundwater monitoring and care period of 30 years. For areas where contamination remains in place, five-year reviews of remedial actions will be performed as required by CERCLA.

The enrichment process will continue to operate under USEC control, or a successor organization. Reindustrialization or reuse of existing DOE facilities, or use of infrastructure, is a possibility, with deed restrictions or use limitations applied to areas that have contamination remaining in place. The final end state for D&D buildings is the effective cleanup of the contaminated facilities, such that release for reuse is allowed or the dismantlement of facilities that cannot be reused.

Cost Baseline Comments:

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The estimates were initially developed using historic costs for similar types of work, and then adjusted to reflect some of the projected efficiencies from the M&I contracting approach (e.g., fixed-priced subcontracting) unless other contract obligations are currently in effect for a specific work scope. The assumptions contained in the basis of estimate were obtained from the Fiscal Year Baseline, and the expected range of accuracy for the estimate is -20% to +30%.

Safety & Health Hazards:

The Remedial Action Program involves the investigation, remediation, and monitoring of various release sites at PGDP. The majority of these sites are contaminated with chemical and radiological materials that pose a potential risk to industrial workers, recreational users, and the public. In addition, the remediation workers performing this type of work may also have a potential for exposure, but will be working under approved health and safety plans developed in accordance with OSHA 1910.120. A particular concern at PAD is the scope of the remedial action that will ultimately be selected for SWMU 2 under WAG 22. This SWMU is a burial ground containing pyrophoric uranium and is currently undergoing remedy selection. The state of Kentucky has expressed a strong desire to excavate SWMU 2 as the preferred alternative. However, the safety hazards posed by the pyrophoric uranium to the excavation workers may significantly exceed the perceived benefits for selecting such an action in the first place.

Safety & Health Work Performance:

Before a subproject begins, several activities must be completed that demonstrate that all involved in the project have completed rigorous health and safety reviews and that all potential hazards of doing the work have been identified. The routine activities in RA are conducted in accordance with standard operating procedures, activity hazard analyses, and Integrated Safety Management plans. Non-routine work will require a readiness assessment as necessary to ensure complete health, safety, and environmental reviews prior to work start. This assessment is conducted by people, experienced in similar kinds of work, with the right to examine all aspects of a project about to commence, and require that the project team provide documented evidence that any applicable requirements of the job have been met.

PBS Comments:

Baseline Validation Narrative:

The Oak Ridge Operations Office Environmental Management Life Cycle Baseline (LCB) was submitted by the Managing and Integrating Contractor, Bechtel Jacobs Company LLC, to DOE-ORO on April 1, 1999. The final draft LCB will be submitted to DOE-ORO on June 1, 1999 after formal receipt and incorporation of comments. A validation of the baseline is in process using an independent contractor to DOE-ORO. The validation will be ongoing until complete and the final validation report is scheduled to be issued on June 25, 1999.

General PBS Information

Project Validated?

Date Validated:

Has Headquarters reviewed and approved project?

No

Date Project was Added: 3/10/1999

Baseline Submission Date: 7/1/1999

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FEDPLAN Project?	Yes							
Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	Y	Y	N	N	N	N	N	N

Project Identification Information

DOE Project Manager:	Myrna E. Redfield
DOE Project Manager Phone Number:	502-441-6815
DOE Project Manager Fax Number:	502-441-6801
DOE Project Manager e-mail address:	redfieldme@ornl.gov
Is this a High Visibility Project (Y/N):	

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (current year dollars)	234,188	245,502	479,690	15,196	16,812	17,787	18,854	20,433	18,375	22,394	23,713	22,182	31,473	43,305	19,330	
PBS Baseline (constant 1999 dollars)	218,896	204,646	423,542	15,196	16,812	17,787	18,854	20,433	17,997	21,482	22,280	20,413	28,367	38,228	16,713	
PBS EM Baseline (current year dollars)	234,188	245,502	479,690	15,196	16,812	17,787	18,854	20,433	18,375	22,394	23,713	22,182	31,473	43,305	19,330	
PBS EM Baseline (constant 1999 dollars)	218,896	204,646	423,542	15,196	16,812	17,787	18,854	20,433	17,997	21,482	22,280	20,413	28,367	38,228	16,713	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070

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	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	90,268	135,063	8,178	11,972	21	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	76,441	112,022	6,643	9,525	15	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	90,268	135,063	8,178	11,972	21	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	76,441	112,022	6,643	9,525	15	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project:

Current Projected End Date of Project: 9/30/2011

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	Actual 1997 Cost:	16,812	Actual 1998 Cost:	18,854
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Project Reconciliation

Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	-35,666	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):	-963
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	-36,629		

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):		
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	-36,629	
Additional Amount to Reconcile (+):	427,188	
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	390,559	

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
SSOU - ISSUE D1 SE REPORT EPA/KDEP	OR523-001		6/22/2000	6/22/2000			Y				
SSOU - ISSUE SCOPING DOCUMENT TO EPA/KDEP (D1)	OR523-002		2/25/2000	4/6/2000			Y				
SSOU - ISSUE DRAFT RI/FS WORK PLAN TO EPA/KDEP (D1)	OR523-003		8/20/2000	9/30/2000			Y				
SSOU - ISSUE DRAFT RI REPORT TO EPA/KDEP (D1)	523-4		5/30/2003								
SSOU - ISSUE FS REPORT TO EPA/KDEP (D1)	OR523-005		12/26/2003								
SSOU - ISSUE PROPOSED PLAN TO EPA/KY (D1)	OR523-006		6/26/2004								
SSOU - ISSUE RECORD OF DECISION TO EPA/KY	OR523-007		1/4/2005								

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Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
(D1)											
BGOU WAG 3 - ISSUE DRAFT RI RPT TO EPA/KDEP (D1)	523-8		8/27/2000	8/2/2000			Y				
BGOU - ISSUE SCOPING DOCUMENT TO EPA/KDEP (D1)	OR523-009		9/7/2002								
BGOU - ISSUE RI/FS WORK PLAN TO EPS/KY (D1)	OR523-010		3/24/2003								
BGOU - ISSUE DRAFT RI REPORT TO EPA/KDEP (D1)	OR523-011		5/20/2005								
BGOU - ISSUE FS REPORT TO EPA/KDEP (D1)	OR523-012		12/16/2005								
BGOU - ISSUE PROPOSED PLAN TO EPA/KY (D1)	OR523-013		6/17/2006								
BGOU W3 - ISSUE RECORD OF DECISION TO EPA/KY (D1)	OR523-014		12/26/2006								
BGOU W22(2) - ISSUE D1 ROD TO EPA/KDEP	OR523-015		6/15/2000								
GWOU (W28) - ISSUE D1 RI REPORT - EPA/KDEP(W28)	OR523-016		11/24/1999	1/26/2000			Y				
GWOU - ISSUE D1 FS TO REGULATORS	OR523-017		6/11/2000	6/18/2000			Y				
GWOU - ISSUE D1 PROPOSED PLAN	OR523-018		11/10/2000	11/26/2000			Y				
GWOU - ISSUE D1 ROD TO EPA/KDEP	OR523-019		5/9/2001	5/20/2001			Y				
GWOU SW Plume - ISSUE D1 TREATABILITY STUDY	OR523-020		2/26/2000								
SWOU - ISSUE FS REPORT TO EPA/KDEP (D1)	OR523-021		4/9/2002								
SWOU - ISSUE PROPOSED PLAN TO EPA/KY (D1)	OR523-022		10/9/2002								
SWOU - ISSUE RECORD OF DECISION TO EPA/KY (D1)	OR523-023		4/19/2003								
SSOU - ISSUE RD WORK PLAN/SCHEDULE TO EPS/KY (D1)	OR523-024		9/20/2005								

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SSOU - ISSUE DRAFT REMEDIAL DESIGN TO EPA/KDEP (D1)	OR523-025		9/16/2006								
SSOU - ISSUE REMEDIAL ACTION WORK PLAN TO EPA/KY (D1)	OR523-026		10/24/2006								
SSOU - ISSUE CONSTRUCTION QA PLAN TO EPA/KY (D1)	OR523-027		10/24/2006								
SSOU - ISS DRAFT POST CONSTRUCTION RPT TO EPS/KDEP (D1)	OR523-028		1/22/2009								
BGOU - ISSUE RD WORK PLAN/SCHEDULE TO EPS/KY (D1)	OR523-029		12/26/2007								
BGOU - ISSUE DRAFT REMEDIAL DESIGN TO EPA/KDEP (D1)	OR523-030		12/21/2008								
BGOU - ISSUE REMEDIAL ACTION WORK PLAN TO EPA/KY (D1)	OR523-031		1/28/2009								
BGOU - ISSUE CONSTRUCTION QA PLAN TO EPA/KY (D1)	OR523-032		1/28/2009								
BGOU - ISSUE O&M PLAN TO EPA/KY (D1)	OR523-033		8/31/2009								
BGOU - ISS DRAFT POST CONSTRUCTION RPT TO EPS/KDEP (D1)	OR523-034		10/19/2010								
BGOU W22(2&3) - ISSUE RD WORK PLAN/SCHEDULE TO EPS/KY (D1)	OR523-035		11/14/2005								
BGOU W22(2&3) - ISSUE DRAFT REMEDIAL DESIGN TO EPA/KDEP (D1)	OR523-036		11/18/2006								
BGOU W22(2&3) - ISSUE REMEDIAL ACTION WORK PLAN TO EPA/KY (D1)	OR523-037		12/26/2006								
BGOU W22(2&3) ISSUE CONSTRUCTION QA PLAN TO EPA/KY (D1)	OR523-038		12/26/2006								
BGOU W22(2&3) - ISSUE O&M PLAN TO EPA/KY	OR523-039		7/29/2007								

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(D1)											
BGOU W22(2&3) - ISS DRAFT POST CONSTRUCTION RPT TO EPS/KDEP (D1)	OR523-040		9/15/2008								
GWOU - ISSUE RD WORK PLAN/SCHEDULE TO EPS/KY (D1)	OR523-041		5/20/2001								
GWOU - ISSUE DRAFT REMEDIAL DESIGN TO EPA/KDEP (D1)	OR523-042		5/16/2002								
GWOU - ISSUE REMEDIAL ACTION WORK PLAN TO EPA/KY (D1)	OR523-043		6/23/2002								
GWOU - ISSUE CONSTRUCTION QA PLAN TO EPA/KY (D1)	OR523-044		6/23/2002								
GWOU - ISSUE O&M PLAN TO EPA/KY (D1)	OR523-045		4/24/2003								
GWOU - ISS DRAFT POST CONSTRUCTION RPT TO EPS/KDEP (D1)	OR523-046		5/18/2006								
SWOU - ISSUE RD WORK PLAN/SCHEDULE TO EPS/KY (D1)	OR523-047		5/17/2003								
SWOU - ISSUE DRAFT REMEDIAL DESIGN TO EPA/KDEP (D1)	OR523-048		5/12/2004								
SWOU - ISSUE REMEDIAL ACTION WORK PLAN TO EPA/KY (D1)	OR523-049		6/19/2004								
SWOU - ISSUE CONSTRUCTION QA PLAN TO EPA/KY (D1)	OR523-050		6/19/2004								
SWOU - ISS DRAFT POST CONSTRUCTION RPT TO EPS/KDEP (D1)	OR523-051		3/12/2006								
Lasagna - ISS DRFT POST CONSTRUCTION REPORT TO EPA/KDEP (D	OR523-052		1/24/2000	1/24/2000			Y				
Lasagna - ISSUE FINAL REMEDIATION REPORT TO EPA/KY (D1)	OR523-053		6/19/2002								

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Paducah Remedial Action Project Start	OR523-054		10/1/1996								
Paducah Remedial Action Project Complete	OR523-055		9/30/2011								
SSOU Remedial Action Construction Start	OR523-056		12/6/2007								
SSOU Remedial Action Construction Finish	OR523-057		11/30/2008								
BGOU Remedial Action Construction Start	OR523-058		8/2/2009								
BGOU Remedial Action Construction Finish	OR523-059		7/28/2010								
BGOU W22(2&3) RA Construction Start	OR523-060		6/30/2007								
BGOU W22(2&3) RA Construction Finish	OR523-061		6/24/2008								
GWOU RA Construction Start	OR523-062		12/26/2002								
GWOU RA Construction Finish	OR523-063		12/26/2005								
SWOU RA Construction Start	OR523-064		12/22/2004								
SWOU RA Construction Finish	OR523-065		12/19/2005								
Scrap Removal (RA Start)	OR523-066		3/1/2000								
Paducah Remedial Action Mission Completion	OR523-067		9/30/2011								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
SSOU - ISSUE D1 SE REPORT EPA/KDEP	OR523-001										Submit draft SSOU remedial SE Report to regulators
SSOU - ISSUE SCOPING DOCUMENT TO EPA/KDEP (D1)	OR523-002										D1 draft SSOU Scoping Document to regulators
SSOU - ISSUE DRAFT RI/FS WORK PLAN TO EPA/KDEP (D1)	OR523-003										D1 SSOU draft RI/FS Work Plan to regulators
SSOU - ISSUE DRAFT RI	523-4										D1 SSOU RI Report to regulators

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
REPORT TO EPA/KDEP (D1)											
SSOU - ISSUE FS REPORT TO EPA/KDEP (D1)	OR523-005										D1 SSOU FS Report to regulators
SSOU - ISSUE PROPOSED PLAN TO EPA/KY (D1)	OR523-006										D1 SSOU Proposed Plan to regulators
SSOU - ISSUE RECORD OF DECISION TO EPA/KY (D1)	OR523-007										D1 SSOU ROD to regulators
BGOU WAG 3 - ISSUE DRAFT RI RPT TO EPA/KDEP (D1)	523-8										D1 BGOU WAG3 RI Report to regulators
BGOU - ISSUE SCOPING DOCUMENT TO EPA/KDEP (D1)	OR523-009										D1 BGOU Scoping Document to regulators
BGOU - ISSUE RI/FS WORK PLAN TO EPS/KY (D1)	OR523-010										D1 BGOU RI/FS Work Plan to regulators
BGOU - ISSUE DRAFT RI REPORT TO EPA/KDEP (D1)	OR523-011										D1 BGOU RI Report to regulators
BGOU - ISSUE FS REPORT TO EPA/KDEP (D1)	OR523-012										D1 BGOU FS Report to regulators
BGOU - ISSUE PROPOSED PLAN TO EPA/KY (D1)	OR523-013										D1 BGOU Proposed Plan to regulators
BGOU W3 - ISSUE RECORD OF DECISION TO EPA/KY (D1)	OR523-014		Y				3	1	1		D1 BGOU W3 ROD to regulators
BGOU W22(2) - ISSUE D1 ROD TO EPA/KDEP	OR523-015										D1 BGOU W22(2) ROD to regulators
GWOU (W28) - ISSUE D1 RI REPORT - EPA/KDEP(W28)	OR523-016										D1 GWOU (W28) RI Rpt to regulators
GWOU - ISSUE D1 FS TO REGULATORS	OR523-017										D1 GWOU FS Report to regulators
GWOU - ISSUE D1 PROPOSED	OR523-018										D1 GWOU Proposed Plan to

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PLAN											regulators
GWOU - ISSUE D1 ROD TO EPA/KDEP	OR523-019		Y				3	1	1		D1 GWOU ROD to regulators
GWOU SW Plume - ISSUE D1 TREATABILITY STUDY	OR523-020										D1 GWOU SW Plume Treatability Study Report to regulators
SWOU - ISSUE FS REPORT TO EPA/KDEP (D1)	OR523-021										D1 SWOU FS Report to regulators
SWOU - ISSUE PROPOSED PLAN TO EPA/KY (D1)	OR523-022										D1 SWOU Proposed Plan to regulators
SWOU - ISSUE RECORD OF DECISION TO EPA/KY (D1)	OR523-023										D1 SWOU ROD to regulators
SSOU - ISSUE RD WORK PLAN/SCHEDULE TO EPS/KY (D1)	OR523-024										D1 SSOU RD Work Plan to regulators
SSOU - ISSUE DRAFT REMEDIAL DESIGN TO EPA/KDEP (D1)	OR523-025										D1 SSOU Remedial Design to regulators
SSOU - ISSUE REMEDIAL ACTION WORK PLAN TO EPA/KY (D1)	OR523-026										D1 SSOU Remedial Action WP to regulators
SSOU - ISSUE CONSTRUCTION QA PLAN TO EPA/KY (D1)	OR523-027										D1 SSOU Construction QA Plan to regulators
SSOU - ISS DRAFT POST CONSTRUCTION RPT TO EPS/KDEP (D1)	OR523-028										D1 SSOU Postconstruction Rpt to regulators
BGOU - ISSUE RD WORK PLAN/SCHEDULE TO EPS/KY (D1)	OR523-029										D1 BGOU Remedial Design WP to regulators
BGOU - ISSUE DRAFT	OR523-030										D1 BGOU Remedial Design to

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
REMEDIAL DESIGN TO EPA/KDEP (D1)											regulators
BGOU - ISSUE REMEDIAL ACTION WORK PLAN TO EPA/KY (D1)	OR523-031										D1 BGOU Remedial Action WP to regulators
BGOU - ISSUE CONSTRUCTION QA PLAN TO EPA/KY (D1)	OR523-032										D1 BGOU Construction QA Plan to regulators
BGOU - ISSUE O&M PLAN TO EPA/KY (D1)	OR523-033										D1 BGOU O&M Plan to regulators
BGOU - ISS DRAFT POST CONSTRUCTION RPT TO EPS/KDEP (D1)	OR523-034										D1 BGOU Postconstruction Rpt to regulators
BGOU W22(2&3) - ISSUE RD WORK PLAN/SCHEDULE TO EPS/KY (D1)	OR523-035										D1 BGOU W22(2&3) Remedial Design WP to regulators
BGOU W22(2&3) - ISSUE DRAFT REMEDIAL DESIGN TO EPA/KDEP (D1)	OR523-036										D1 BGOU W22(2&3) Remedial Design to regulators
BGOU W22(2&3) - ISSUE REMEDIAL ACTION WORK PLAN TO EPA/KY (D1)	OR523-037										D1 BGOU W22(2&3) Remedial Action WP to regulators
BGOU W22(2&3) ISSUE CONSTRUCTION QA PLAN TO EPA/KY (D1)	OR523-038										D1 BGOU W22(2&3) Construction QA Plan to regulators
BGOU W22(2&3) - ISSUE O&M PLAN TO EPA/KY (D1)	OR523-039										D1 BGOU W22(2&3) O&M Plan to regulators
BGOU W22(2&3) - ISS DRAFT POST CONSTRUCTION RPT TO EPS/KDEP (D1)	OR523-040										D1 BGOU W22(2&3) Postconstruction Rpt to regulators

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
GWOU - ISSUE RD WORK PLAN/SCHEDULE TO EPS/KY (D1)	OR523-041										D1 GWOU Remedial Design WP to regulators
GWOU - ISSUE DRAFT REMEDIAL DESIGN TO EPA/KDEP (D1)	OR523-042										D1 GWOU RD to regulators
GWOU - ISSUE REMEDIAL ACTION WORK PLAN TO EPA/KY (D1)	OR523-043										D1 GWOU RA WP to regulators
GWOU - ISSUE CONSTRUCTION QA PLAN TO EPA/KY (D1)	OR523-044										D1 GWOU Construction QA Plan to regulators
GWOU - ISSUE O&M PLAN TO EPA/KY (D1)	OR523-045										D1 GWOU O&M Plan to regulators
GWOU - ISS DRAFT POST CONSTRUCTION RPT TO EPS/KDEP (D1)	OR523-046										D1 GWOU Postconstruction Rpt to regulators
SWOU - ISSUE RD WORK PLAN/SCHEDULE TO EPS/KY (D1)	OR523-047										D1 SWOU Remedial Design WP to regulators
SWOU - ISSUE DRAFT REMEDIAL DESIGN TO EPA/KDEP (D1)	OR523-048										D1 SWOU Remedial Design to regulators
SWOU - ISSUE REMEDIAL ACTION WORK PLAN TO EPA/KY (D1)	OR523-049										D1 SWOU Remedial Action WP to regulators
SWOU - ISSUE CONSTRUCTION QA PLAN TO EPA/KY (D1)	OR523-050										D1 SWOU Construction QA Plan to regulators
SWOU - ISS DRAFT POST	OR523-051										D1 SWOU Postconstruction Rpt to

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
CONSTRUCTION RPT TO EPS/KDEP (D1)											regulators
Lasagna - ISS DRFT POST CONSTRUCTION REPORT TO EPA/KDEP (D)	OR523-052										D1 Lasagna Postconstruction Rpt to regulators
Lasagna - ISSUE FINAL REMEDIATION REPORT TO EPA/KY (D1)	OR523-053										D1 Lasagna Final Remediation Rpt to regulators
Paducah Remedial Action Project Start	OR523-054			Y							Project start for Remedial Action PBS
Paducah Remedial Action Project Complete	OR523-055				Y						Project Complete for Remedial Action PBS
SSOU Remedial Action Construction Start	OR523-056										SSOU Remedial Action Construction Start
SSOU Remedial Action Construction Finish	OR523-057										SSOU Remedial Action Construction Finish
BGOU Remedial Action Construction Start	OR523-058										BGOU Remedial Action Construction Start
BGOU Remedial Action Construction Finish	OR523-059										BGOU Remedial Action Construction Finish
BGOU W22(2&3) RA Construction Start	OR523-060										BGOU W22(2&3) RA Construction Start
BGOU W22(2&3) RA Construction Finish	OR523-061										BGOU W22(2&3) RA Construction Finish
GWOU RA Construction Start	OR523-062										GWOU RA Construction Start
GWOU RA Construction Finish	OR523-063										GWOU RA Construction Finish
SWOU RA Construction Start	OR523-064										SWOU RA Construction Start
SWOU RA Construction Finish	OR523-065										SWOU RA Construction Finish

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description			
Scrap Removal (RA Start)	OR523-066		Y				4	4	3		Scrap Removal (RA Start)			
Paducah Remedial Action Mission Completion	OR523-067					Y								

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
RS														
Assess.	NR	125.00	12.00	137.00	36.00	16.00	18.00	1.00	14.00	11.00	17.00	8.00	19.00	18.00
RS														
Cleanup	NR	85.00	52.00	137.00	36.00		2.00	16.00	13.00	8.00		8.00	10.00	13.00
LLW														
Ship to DOE Disp.	M3	14,000.00	0.00	14,000.00							7,000.00	7,000.00		
Rem. Waste														
Disposed	M3	44,420.00	61,504.00	105,924.00					95.00	28.00	12,006.00	12,003.00	8,958.00	73.00
Tech.														
Deployed	Ntd	3.00	0.00	3.00						1.00	2.00			
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	
RS														
Assess.	NR	18.00	16.00	5.00	12.00									
RS														
Cleanup	NR	13.00		17.00	26.00	7.00	16.00	3.00						

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Category/Subcategory				Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
LLW																
Ship to DOE Disp.				M3												
Rem. Waste																
Disposed				M3	73.00	3,447.00	7,810.00	4,204.00	11,991.00			2.00	18,123.00	22,653.00	4,531.00	
Tech.																
Deployed				Ntd												
Category/Subcategory				Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total			
RS																
Assess.				NR								25.00	188.00			
RS																
Cleanup				NR								25.00	188.00			
LLW																
Ship to DOE Disp.				M3									14,000.00			
Rem. Waste																
Disposed				M3									105,829.00			
Tech.																
Deployed				Ntd									3.00			
Release Sites																
Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD		
PGDP	0002		RAIMS Unit #2047 \ C-747 Oil Landfarm	Dispersed Surface Contamination/Land Farms	2001	2001		2006	2006	6/8/1998		N		Y		

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PGDP	0003		RAIMS Unit #2042 \ KPDES Outfall Ditch 012	Surface and Groundwater/Sediments	2003	2003		2007	2007			N		Y
PGDP	0004		RAIMS Unit #2030 \ C-728 Clean Waste Oil Tank	Spills and Leaks/Surface Spills	1997	1997	9/11/1997	1998	1998	6/8/1998		N		N
PGDP	0005		RAIMS Unit #2031 \ C-728 Motor Cleaning Facility	Spills and Leaks/Surface Spills	1997	1997	9/11/1997	1998	1998	6/8/1998		N		Y
PGDP	0006		RAIMS Unit #2026 \ C-540-A PCB Waste Staging Area	Above Ground Material / Waste/Storage Yards and Pads	1997	1997	9/11/1997	1998	1998	6/8/1998		N		N
PGDP	0007		RAIMS Unit #2028 \ C-541-A PCB Waste Staging Area	Above Ground Material / Waste/Storage Yards and Pads	1997	1997	9/11/1997	1998	1998	6/8/1998		N		N
PGDP	0008		RAIMS Unit #2043 \ Little Bayou Creek	Surface and Groundwater/Sediments	2003	2003		2007	2007			N		Y
PGDP	0009		RAIMS Unit #1993 \ Big Bayou Creek	Surface and Groundwater/Sediments	2007	2007		2007	2007			N		Y
PGDP	0010		RAIMS Unit #2024 \ C-340 PCB Spill Site	Spills and Leaks/Surface Spills	1997	1997	9/11/1997	1998	1998	6/8/1998		N		Y
PGDP	0011		RAIMS Unit #2029 \ C-611 PCB Spill Site	Spills and Leaks/Surface Spills	1997	1997	9/11/1997	1998	1998	6/8/1998		N		N
PGDP	0012		RAIMS Unit #2025 \ C-540 PCB Spill Site	Spills and Leaks/Surface Spills	1997	1997	9/11/1997	1998	1998	6/8/1998		N		N
PGDP	0013		RAIMS Unit #2027 \ C-541 PCB Spill Site	Spills and Leaks/Surface Spills	1997	1997	9/11/1997	1998	1998	6/8/1998		N		N
PGDP	0014		RAIMS Unit #2034 \ C-747-A UF4 Drum Yard	Above Ground Material / Waste/Scrap Yards	2006	2006		2008	2008			N		Y
PGDP	0015		RAIMS Unit #1942 \ C-746-P Clean Scrapyard	Above Ground Material / Waste/Scrap Yards	2003	2003		2003	2003			N		Y

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PGDP	0016		RAIMS Unit #2033 \ C-746-E Contaminated Scrapyard	Above Ground Material / Waste/Scrap Yards	2006	2006		2008	2008			N		Y
PGDP	0017		RAIMS Unit #2032 \ C-746-C Scrapyard	Above Ground Material / Waste/Scrap Yards	2006	2006		2008	2008			N		Y
PGDP	0018		RAIMS Unit #2021 \ C-749 Uranium Burial Ground	Waste/Landfills	1998	1999		2008	2008			N		N
PGDP	0019		RAIMS Unit #2023 \ C-747-A Burn Area	Waste/Burn Pits	2001	2001		2006	2006			N		Y
PGDP	0020		RAIMS Unit #2022 \ C-747-A Burial Ground (GW)	Waste/Landfills	2001	2001		2006	2006			N		Y
PGDP	0021		RAIMS Unit #2002 \ C-333 PCB Soil Contamination (North side of C-333)	Spills and Leaks/Surface Spills	1999			1999				N		N
PGDP	0022		RAIMS Unit #1950 \ C-331 PCB Soil Contamination (West side)	Spills and Leaks/Surface Spills	1999			1999				N		N
PGDP	0023		RAIMS Unit #2001 \ C-331 PCB Soil Contamination (Southeast side)	Spills and Leaks/Surface Spills	1999			1999				N		N
PGDP	0024		RAIMS Unit #1951 \ C-333 PCB Soil Contamination (West side)	Spills and Leaks/Surface Spills	1999			1999				N		N
PGDP	0025		RAIMS Unit #1949 \ C-310 PCB Soil Contamination (West Side)	Spills and Leaks/Surface Spills	1999			1999				N		N
PGDP	0026		RAIMS Unit #2004 \ C-745 Cylinder Yard Spoils Area (PCB Soil Contamination)	Spills and Leaks/Surface Spills	1999			1999				N		N
PGDP	0027		RAIMS Unit #1952 \ C-743-T01 Trailer Site (Soil Backfill)	Spills and Leaks/Surface Spills	1999			1999				N		N
PGDP	0028		RAIMS Unit #2003 \ C-617-A Sanitary Water Line (Soil Backfill)	Spills and Leaks/Surface Spills	1999			1999				N		N
PGDP	0029		RAIMS Unit #2000 \ C-304 Bldg/HVAC Piping System (Soil Backfill)	Spills and Leaks/Surface Spills	1999			1999				N		N

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PGDP	0030		RAIMS Unit #1948 \ KPDES Outfall Ditch 017 Flume (Soil Backfill)	Spills and Leaks/Surface Spills	1999			1998				N		N
PGDP	0031		RAIMS Unit #2018 \ Chilled Water System Leak Site	Spills and Leaks/Pipeline Leaks	2000			2000				N		N
PGDP	0032		RAIMS Unit #2017 \ C-331 RCW Leak Northwest Side	Spills and Leaks/Pipeline Leaks	2000			2000				N		N
PGDP	0033		RAIMS Unit #2016 \ C-331 RCW Leak East Side	Spills and Leaks/Pipeline Leaks	2000			2000				N		N
PGDP	0034		RAIMS Unit #2020 \ Outdoor Firing Range (WKWMA)	Dispersed Surface Contamination/Firing Ranges and Ordnance	2000			2000				N		N
PGDP	0035		RAIMS Unit #2019 \ Outdoor Firing Range (PGDP)	Dispersed Surface Contamination/Firing Ranges and Ordnance	2000			2000				N		N
PGDP	0036		RAIMS Unit #2045 \ Northwest Groundwater Plume	Surface and Groundwater/Groundwater Plumes	2001	2001		2006	2006			N		Y
PGDP	0037		RAIMS Unit #2011 \ C-100 Trailer Complex Soil Contamination (East side)	Spills and Leaks/Surface Spills	2005	2005		2009	2009			N		Y
PGDP	0038		RAIMS Unit #2012 \ C-726 Sandblasting Facility	Buildings & Equipment/Other Buildings	2005	2005		2009	2009			N		Y
PGDP	0039		RAIMS Unit #2068 \ C-410-D Area Soil Contamination	Spills and Leaks/Surface Spills	2004	2004		2004	2004			N		Y
PGDP	0040		RAIMS Unit #2044 \ Northeast Groundwater Plume	Surface and Groundwater/Groundwater Plumes	2001	2001		2006	2006			N		Y
PGDP	0041		RAIMS Unit #2061 \ C-340 Hydraulic System (previously AOC #E)	Buildings & Equipment/Equipment	2004	2004		2004	2004			N		Y

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Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
PGDP	0042		RAIMS Unit #2015 \ Residential/Inert Landfill Borrow Area	Waste/Miscellaneous Surface Debris	2000			2000				N		N
PGDP	0043		RAIMS Unit #1941 \ C-746-D Classified Scrapyard	Above Ground Material / Waste/Scrap Yards	2003	2003		2003	2003			N		Y
PGDP	0044		RAIMS Unit #1932 \ C-410-B Neutralization Lagoon	Liquid Surface Impoundments/Settling and Separation Basins	1998			1998				N		Y
PGDP	0045		RAIMS Unit #1933 \ C-410-C Neutralization Tank	Tanks/Underground Storage Tanks	1998			1998				N		Y
PGDP	0046		RAIMS Unit #2064 \ C-405 Incinerator	Buildings & Equipment/Other Buildings	2004	2004		2004	2004			N		Y
PGDP	0047		RAIMS Unit #2005 \ C-633 PCB Spill Site	Spills and Leaks/Surface Spills	1999			1999				N		N
PGDP	0048		RAIMS Unit #2071 \ C-632-B Sulfuric Acid (H2 SO4) Storage Tank	Tanks/Above Ground Storage Tanks	2003	2003		2003	2003			N		N
PGDP	0049		RAIMS Unit #2078 \ C-531 Switchyard	Buildings & Equipment/Equipment	2000			2003	2003			N		N
PGDP	0050		RAIMS Unit #2079 \ C-533 Switchyard	Buildings & Equipment/Equipment	2000			2003	2003			N		N
PGDP	0051		RAIMS Unit #2007 \ C-633 Pumphouse and Cooling Tower	Liquid Surface Impoundments/Holding Ponds	2002	2002		2002	2002			N		N
PGDP	0052		RAIMS Unit #2008 \ C-635 Pumphouse and Cooling Tower	Liquid Surface Impoundments/Holding Ponds	2002	2002		2002	2002			N		N
PGDP	0053		RAIMS Unit #2048 \ C-745 Kellogg Building Site (previously AOC #C) (GW)	Above Ground Material / Waste/Storage Yards and Pads	2001	2001		2006	2006			N		N

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PGDP	0054		RAIMS Unit #2093 \ Fire Training Area (previously AOC #D)	Waste/Fire Training Areas	1997	1997	4/8/1997	1998	1998	8/10/1998		N		N
PGDP	0055		RAIMS Unit #2089 \ C-611 UST 550-Gallon Gas Tank (West of C-611)	Tanks/Underground Storage Tanks	1997	1999	4/8/1997	1998		8/10/1998		N		N
PGDP	0056		RAIMS Unit #2088 \ C-611 UST 50-Gallon Gas Tank (East of C-611)	Tanks/Underground Storage Tanks	1997	1999	4/8/1997	1998		8/10/1998		N		N
PGDP	0057		RAIMS Unit #2087 \ C-611 UST 2000-Gallon Oil Tank (North of C-611)	Tanks/Underground Storage Tanks	1997	1999	4/8/1997	1998		8/10/1998		N		N
PGDP	0058		RAIMS Unit #2090 \ C-611 UST - Unknown Size, Grounted Tank (South of C-611)	Tanks/Underground Storage Tanks	1997	1999	4/8/1997	1998		8/10/1998		N		N
PGDP	0059		RAIMS Unit #2086 \ C-611 UST 1000-Gallon Diesel/Gas Tank (Southeast of C-611)	Tanks/Underground Storage Tanks	1997	1999	4/8/1997	1998		8/10/1998		N		N
PGDP	0060		RAIMS Unit #2091 \ C-740 TCE Spill Site (NW corner, C-740 concrete pad)	Spills and Leaks/Surface Spills	1997	1999	4/8/1997	1998		8/10/1998		N		N
PGDP	0061		RAIMS Unit #2092 \ C-746-K Inactive Sanitary Landfill	Waste/Landfills	1997	1997	4/8/1997	1998	1998	2/8/1999		N		N
PGDP	0062		RAIMS Unit #2014 \ C-100 Southside Berms	Above Ground Material / Waste/Debris Piles	2000			2000				N		N
PGDP	0063		RAIMS Unit #1937 \ C-611-4 Horseshoe Lagoon	Liquid Surface Impoundments/Lagoons	2004	2004		2007	2007			N		N
PGDP	0064		RAIMS Unit #1939 \ C-611-W Sludge Lagoon	Liquid Surface Impoundments/Lagoons	2004	2004		2007	2007			N		N
PGDP	0065		RAIMS Unit #1940 \ C-611-Y Overflow Lagoon	Liquid Surface Impoundments/Lagoons	2004	2004		2007	2007			N		N
PGDP	0066		RAIMS Unit #1938 \ C-611-V Lagoons	Liquid Surface Impoundments/Lagoons	2004	2004		2007	2007			N		N
PGDP	0067		RAIMS Unit #2083 \ C-616-L Pipeline and Vault Soil Contamination	Spills and Leaks/Surface Spills	1998			1998				N		Y

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PGDP	0068		RAIMS Unit #2062 \ C-720 Whiteroom Sump	Liquid Surface Impoundments/Sumps	2004	2004		2004	2004			N		N
PGDP	0069		RAIMS Unit #2085 \ C-729 Acetylene Building Drain Pits	Liquid Surface Impoundments/Settling and Separation Basins	1998			1998				N		N
PGDP	0070		RAIMS Unit #1945 \ C-750-D Underground Storage Tank	/	1996	1999	7/6/1999	1996	1999			N		N
PGDP	0071		RAIMS Unit #2084 \ C-722 Acid Neutralization Tank	Liquid Surface Impoundments/Settling and Separation Basins	1998			1998				N		N
PGDP	0072		RAIMS Unit #2072 \ C-720 Compressor Pit Water Storage Tank	Tanks/Above Ground Storage Tanks	2003	2003		2003	2003			N		Y
PGDP	0073		RAIMS Unit #2066 \ C-337-A Vaporizer	Spills and Leaks/Pipeline Leaks	2004	2004		2004	2004			N		N
PGDP	0074		RAIMS Unit #2080 \ C-535 Switchyard	Buildings & Equipment/Equipment	2000			2003	2003			N		N
PGDP	0075		RAIMS Unit #2081 \ C-537 Switchyard	Buildings & Equipment/Equipment	2000			2003	2003			N		N
PGDP	0076		RAIMS Unit #2009 \ C-637 Pumphouse and Cooling Tower	Liquid Surface Impoundments/Holding Ponds	2002	2002		2002	2002			N		N
PGDP	0079		RAIMS Unit #1947 \ C-746-A Inactive PCB Transformer/Sump (GW)	Liquid Surface Impoundments/Sumps	1999			1999				N		N
PGDP	0080		RAIMS Unit #1943 \ C-746-A1 Underground Storage Tank	/	1996	1999	1/6/1999	1996	1999			N		N
PGDP	0082		RAIMS Unit #2049 \ McGraw UST (GW)	Tanks/Underground Storage Tanks	2001	2001		2006	2006			N		N
PGDP	0083		RAIMS Unit #2063 \ C-710 Acid Interceptor Pit	Liquid Surface Impoundments/Sumps	2004	2004		2004	2004			N		N

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PGDP	0084		RAIMS Unit #2344 \ McGraw Construction Facilities (Southside Cylinder Yards) (GW)	Miscellaneous/Other	2001	2001		2006	2006			N		N
PGDP	0085		RAIMS Unit #2345 \ McGraw Construction Facilities (Southside) (GW)	Miscellaneous/Other	2001	2001		2006	2006			N		N
PGDP	0086		RAIMS Unit #2046 \ C-746-A Septic System (GW)	Tanks/Septic Tanks	2001	2001		2006	2006			N		Y
PGDP	0087		RAIMS Unit #2082 \ C-712 Acid Neutralization Tank	Liquid Surface Impoundments/Settling and Separation Basins	1998			2008	2008			N		N
PGDP	0088		RAIMS Unit #1935 \ C-616-E Sludge Lagoon	Liquid Surface Impoundments/Lagoons	2002	2002		2002	2002			N		Y
PGDP	0089		RAIMS Unit #1936 \ C-616-F Full Flow Lagoon	Liquid Surface Impoundments/Lagoons	2002	2002		2002	2002			N		Y
PGDP	0090		RAIMS Unit #1934 \ C-616 Chromate Reduction Facility	Buildings & Equipment/Other Buildings	2002	2002		2002	2002			N		Y
PGDP	0091		RAIMS Unit #2069 \ C-410-E HF Vent Surge Protection Tank	Tanks/Above Ground Storage Tanks	2003	2003		2003	2003			N		N
PGDP	0092		RAIMS Unit #2010 \ Curlee Road Contaminated Soil Mound	Above Ground Material / Waste/Debris Piles	2005	2005		2009	2009			N		N
PGDP	0093		RAIMS Unit #1931 \ C-410-E HF Emergency Holding Pond	Liquid Surface Impoundments/Holding Ponds	1998			1998				N		Y
PGDP	0094		RAIMS Unit #2065 \ C-333-A Vaporizer	Spills and Leaks/Pipeline Leaks	2004	2004		2004	2004			N		N
PGDP	0095		RAIMS Unit #2341 \ C-634-B Sulfuric Acid (H2 SO4) Storage Tank	Tanks/Above Ground Storage Tanks	2003	2003		2003	2003			N		N
PGDP	0096		RAIMS Unit #2006 \ C-631 Pumphouse and	Liquid Surface	2002	2002		2002	2002			N		N

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			Cooling Tower	Impoundments/Holding Ponds										
PGDP	0097		RAIMS Unit #1999 \ Fill Area for Dirt from the C-420 PCB Spill Site	Spills and Leaks/Surface Spills	1999			1999				N		N
PGDP	0100		RAIMS Unit #1957 \ Concrete Rubble Pile (3)	Above Ground Material / Waste/Debris Piles	2003	2004	9/29/1997	2007	2007	9/29/1997		N		Y
PGDP	0101		RAIMS Unit #1958 \ Concrete Rubble Pile (4)	Above Ground Material / Waste/Debris Piles	2003	2003		2007	2007			N		Y
PGDP	0102		RAIMS Unit #1959 \ Concrete Rubble Pile (5)	Above Ground Material / Waste/Debris Piles	2003	2003		2007	2007			N		Y
PGDP	0103		RAIMS Unit #1960 \ Concrete Rubble Pile (6)	Above Ground Material / Waste/Debris Piles	2003	2003		2007	2007			N		Y
PGDP	0104		RAIMS Unit #1961 \ Concrete Rubble Pile (7)	Above Ground Material / Waste/Debris Piles	2003	2003		2007	2007			N		Y
PGDP	0108		RAIMS Unit #1965 \ Concrete Rubble Pile (11)	Above Ground Material / Waste/Debris Piles	2003	2004	9/29/1997	2007	2007	9/29/1997		N		Y
PGDP	0124		RAIMS Unit #1981 \ Concrete Rubble Pile (27)	Above Ground Material / Waste/Debris Piles	2007	2007		2007	2007			N		Y
PGDP	0132		RAIMS Unit #1989 \ Concrete Rubble Pile (28)	Above Ground Material / Waste/Debris Piles	2007	2007		2007	2007			N		Y
PGDP	0135		RAIMS Unit #1954 \ Concrete Disposal Area East of Plant Security Area	Above Ground Material / Waste/Debris Piles	2003	2003		2007	2007			N		Y
PGDP	0136		RAIMS Unit #2076 \ C-400 Trichloroethylene Leak Site (GW)	Spills and Leaks/Surface Spills	2001	2001		2006	2006			N		N
PGDP	0137		RAIMS Unit #2074 \ C-400 Sump (GW)	Liquid Surface Impoundments/Sumps	2001	2001		2006	2006			N		N
PGDP	0138		RAIMS Unit #2077 \ C-403 Neutralization Tank (GW)	Liquid Surface Impoundments/Settling	2001	2001		2006	2006			N		N

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				and Separation Basins										
PGDP	0139		RAIMS Unit #2075 \ C-400 Technetium Storage Tank Area (GW)	Tanks/Above Ground Storage Tanks	2001	2001		2006	2006			N		N
PGDP	0140		RAIMS Unit #1953 \ C-420 PCB Spill Site	Spills and Leaks/Surface Spills	1999			1999				N		N
PGDP	0141		RAIMS Unit #1885 \ UF6 Cylinder Drop Test Area	Spills and Leaks/Surface Spills	1998	1998	5/5/1998	2000	2000			N		N
PGDP	0142		RAIMS Unit #2067 \ C-400 Basement Sump (previously AOC #B)	Liquid Surface Impoundments/Sumps	2004	2004		2004	2004			N		N
PGDP	0143		RAIMS Unit #2035 \ C-617-A Lagoons	Liquid Surface Impoundments/Lagoons	2003	2003		2007	2007			N		N
PGDP	0144		RAIMS Unit #1994 \ Big Bayou Creek Monitoring Station	Surface and Groundwater/Surface Water	2007	2007		2007	2007			N		Y
PGDP	0145		RAIMS Unit #2036 \ N-S Diversion Ditch (Outside Plt Security Area)	Surface and Groundwater/Sediments	2003	2001		2007	2007			N		N
PGDP	0146		RAIMS Unit #2037 \ N-S Diversion Ditch (Inside Plt Security Area)	Surface and Groundwater/Sediments	2004	2001		2006	2006			N		N
PGDP	0147		RAIMS Unit #2038 \ C-375-E2 Effluent Ditch (KPDES 002)	Surface and Groundwater/Sediments	2003	2003		2007	2007			N		N
PGDP	0148		RAIMS Unit #2039 \ C-375-E5 Effluent Ditch (KPDES 013)	Surface and Groundwater/Sediments	2003	2003		2007	2007			N		N
PGDP	0149		RAIMS Unit #1995 \ C-375-S6 Southwest Ditch (KPDES 009)	Surface and Groundwater/Surface Water	2007	2007		2007	2007			N		Y
PGDP	0150		RAIMS Unit #1996 \ C-375-W7 Oil Skimmer Ditch (KPDES 008)	Surface and Groundwater/Surface Water	2007	2007		2007	2007			N		Y

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PGDP	0151		RAIMS Unit #2040 \ C-375-E3 Effluent Ditch (KPDES 010)	Surface and Groundwater/Sediments	2003	2003		2007	2007			N		N
PGDP	0152		RAIMS Unit #2041 \ C-375-E4 Effluent Ditch (C-340 Ditch)	Surface and Groundwater/Sediments	2003	2003		2007	2007			N		N
PGDP	0153		RAIMS Unit #1997 \ C-375-W8 Effluent Ditch (KPDES 015)	Surface and Groundwater/Surface Water	2007	2007		2007	2007			N		Y
PGDP	0154		RAIMS Unit #1998 \ C-375-W9 Effluent Ditch (KPDES 001)	Surface and Groundwater/Surface Water	2007	2007		2007	2007			N		Y
PGDP	0155		RAIMS Unit #2073 \ C-400 to C-404 Underground Transfer Line (GW)	Spills and Leaks/Pipeline Leaks	2001	2001		2006	2006			N		Y
PGDP	0156		RAIMS Unit #2058 \ C-747 Contaminated Burial Ground	Waste/Landfills	2007	2007		2010	2010			N		N
PGDP	0157		RAIMS Unit #2059 \ C-746-F Classified Burial Ground	Waste/Landfills	2007	2007		2010	2010			N		N
PGDP	0158		RAIMS Unit #2060 \ C-747-B Burial Ground	Waste/Landfills	2007	2007		2010	2010			N		N
PGDP	0160		RAIMS Unit #1912 \ C-200 Underground Gasoline Tanks	/	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0161		RAIMS Unit #2509 \ C-400 to C-404 Underground Transfer Line (SS)	Spills and Leaks/Pipeline Leaks	2005	2005		2009	2009			N		N
PGDP	0162		RAIMS Unit #2510 \ C-400 Trichloroethylene Leak Site (SS)	Above Ground Material / Waste/Debris Piles	2005	2005		2009	2009			N		N
PGDP	0163		RAIMS Unit #2512 \ C-403 Neutralization Tank (SS)	Liquid Surface Impoundments/Settling and Separation Basins	2005	2005		2009	2009			N		N
PGDP	0164		RAIMS Unit #2513 \ C-400 Technetium Storage Tank Area (SS)	Tanks/Above Ground Storage Tanks	2005	2005		2009	2009			N		Y

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PGDP	0165		RAIMS Unit #2514 \ C-400 Sump (SS)	Liquid Surface Impoundments/Sumps	2005	2005		2009	2009			N		Y
PGDP	0166		RAIMS Unit #2516 \ C-746-A Septic System (SS)	Tanks/Septic Tanks	2005	2005		2009	2009			N		Y
PGDP	0167		RAIMS Unit #2517 \ C-720 Compressor Shop Pit Sump (SS)	Liquid Surface Impoundments/Sumps	2005	2005		2009	2009			N		Y
PGDP	0168		RAIMS Unit #2518 \ C-745 Kellogg Building Site (previously AOC #C) (SS)	Above Ground Material / Waste/Storage Yards and Pads	2005	2005		2009	2009			N		Y
PGDP	0169		RAIMS Unit #2519 \ McGraw UST (SS)	Tanks/Underground Storage Tanks	2005	2005		2009	2009			N		N
PGDP	0170		RAIMS Unit #2520 \ McGraw Const Facilities (Southside Cylinder Yards) (SS)	Miscellaneous/Other	2005	2005		2009	2009			N		N
PGDP	0171		RAIMS Unit #2521 \ McGraw Construction Facilities (Southside) (SS)	Miscellaneous/Other	2005	2005		2009	2009			N		N
PGDP	0172		RAIMS Unit #2522 \ Dykes Road Historical Staging Area (SS)	Spills and Leaks/Surface Spills	2005	2005		2009	2009			N		N
PGDP	0173		RAIMS Unit #2523 \ C-747-A Burial Ground (BG)	Waste/Landfills	2006	2006		2008	2008		1999	N		Y
PGDP	0174		RAIMS Unit #2524 \ C-747-A Burn Area (BG)	Waste/Burn Pits	2006	2006		2008	2008		1999	N		Y
PGDP	0645		RAIMS Unit #1891 \ Cooling Tower Scrap Wood Pile	Above Ground Material / Waste/Debris Piles			7/16/1991			7/16/1991		N		N
PGDP	0646		RAIMS Unit #1910 \ C-400 NaOH Precipitation Tank	Above Ground Material / Waste/Storage Yards and Pads	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0647		RAIMS Unit #1916 \ C-333 PCB Waste Staging Area	Above Ground Material / Waste/Storage Yards and Pads			7/16/1991			7/16/1991		N		Y

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PGDP	0648		RAIMS Unit #1902 \ C-333-A Sewage Treatment Aeration Tank	Tanks/Above Ground Storage Tanks	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0649		RAIMS Unit #1889 \ C-337 PCB Waste Storage Area	Above Ground Material / Waste/Storage Yards and Pads	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0650		RAIMS Unit #1901 \ C-33-A Sewage Treatment Aeration Tank	Tanks/Above Ground Storage Tanks	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0651		RAIMS Unit #1911 \ C-400 Degreaser Solvent Recovery Unit	Tanks/Above Ground Storage Tanks	1991		7/19/1991			7/19/1991		N	Approved	Y
PGDP	0652		RAIMS Unit #1909 \ C-400 Waste Decontamination Solution Storage Tanks	Tanks/Above Ground Storage Tanks	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0653		RAIMS Unit #1907 \ C-400-A Gold Dissolver Storage Tank	Tanks/Above Ground Storage Tanks	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0654		RAIMS Unit #1898 \ C-611 Septic System	Tanks/Septic Tanks								N	Approved	N
PGDP	0655		RAIMS Unit #2056 \ C-615 Sewage Treatment Plant	Buildings & Equipment/Other Buildings	2004	2004		2004	2004			N		Y
PGDP	0656		RAIMS Unit #1899 \ C-633 Septic System	Tanks/Septic Tanks	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0657		RAIMS Unit #1900 \ C-637 Septic System	Tanks/Septic Tanks	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0658		RAIMS Unit #1913 \ C-710 Underground Gasoline Tanks	Tanks/Underground Storage Tanks	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0659		RAIMS Unit #2054 \ C-724-A Paint Spray Booth	Buildings & Equipment/Equipment	2004	2004		2004	2004			N		N
PGDP	0660		RAIMS Unit #1896 \ C-745-K Low Level Storage Area	Above Ground Material / Waste/Storage Yards and Pads	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0661		RAIMS Unit #2057 \ C-746-H3 Storage Pad	Above Ground Material / Waste/Storage Yards	2004	2004		2004	2004			N		N

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				and Pads										
PGDP	0662		RAIMS Unit #1895 \ C-746-A Trash Sorting Facility	Above Ground Material / Waste/Debris Piles	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0663		RAIMS Unit #1906 \ C-746-B PCB Waste Storage Area	Above Ground Material / Waste/Storage Yards and Pads	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0664		RAIMS Unit #1904 \ C-746-B TRU Storage Areas	Above Ground Material / Waste/Storage Yards and Pads	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0665		RAIMS Unit #1905 \ C-746-M PCB Waste Storage Area	Above Ground Material / Waste/Storage Yards and Pads	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0666		RAIMS Unit #1914 \ C-746-S Residential Landfill	Waste/Landfills	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0667		RAIMS Unit #1892 \ C-746-T Inert Landfill	Waste/Landfills	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0668		RAIMS Unit #1903 \ C-750 1000-Gallon Waste Oil Tank	Tanks/Underground Storage Tanks	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0669		RAIMS Unit #1893 \ C-750-A (Gasoline UST)	Tanks/Underground Storage Tanks	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0670		RAIMS Unit #1894 \ C-750-B (Gasoline UST)	Tanks/Underground Storage Tanks	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0671		RAIMS Unit #1897 \ C-751 Fuel Facility	Tanks/Underground Storage Tanks	1991		7/19/1991			7/19/1991		N	Approved	N
PGDP	0672		RAIMS Unit #2052 \ Dykes Road Historical Staging Area (GW)	Spills and Leaks/Surface Spills	2001	2001		2006	2006			N		N
PGDP	0673		RAIMS Unit #1992 \ Eastern Portion of Yellow Water Line	Spills and Leaks/Pipeline Leaks	2007	2007		2007	2007			N		N
PGDP	0674		RAIMS Unit #2055 \ Plant Sanitary Sewer	Buildings &	2004	2004		2004	2004			N		Y

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Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
			System	Equipment/Equipment										
PGDP	0675		RAIMS Unit #2053 \ Plant Storm Sewer (previously 96a, 96b, and 96c)	Buildings & Equipment/Equipment	2004	2004		2004	2004			N		Y
PGDP	0676		RAIMS Unit #2013 \ Soil Contamination South of TSCA Waste Storage Facility	Spills and Leaks/Surface Spills	2005	2005		2009	2009			N		N
PGDP	0677		RAIMS Unit #1908 \ C-400-D Lime Precipitation Tank	Tanks/Above Ground Storage Tanks	1991		7/19/1991			7/19/1991		N	Pending	N
PGDP	0678		RAIMS Unit #1917 \ C-720 Inactive TCE Degreaser	Tanks/Above Ground Storage Tanks			7/16/1991			7/16/1991		N		N
PGDP	0680		RAIMS Unit #1920 \ KOW Toluene Spill Area	Spills and Leaks/Surface Spills			7/16/1991			7/16/1991		N		N
PGDP	0681		RAIMS Unit #1921 \ Western Portion of Yellow Water Line	Spills and Leaks/Pipeline Leaks			7/16/1991			7/16/1991		N		N
PGDP	0685		RAIMS Unit #1930 \ C-404 Low-Level RAD Haz Waste Burial Ground	Waste/Landfills			7/16/1991			7/16/1991		N		Y
PGDP	0687		RAIMS Unit #1927 \ C-746-B Waste Chemical Storage Area	Above Ground Material / Waste/Storage Yards and Pads			7/16/1991			7/16/1991		N		Y
PGDP	0689		RAIMS Unit #1923 \ C-746-R Waste Solvent Storage Area	Above Ground Material / Waste/Storage Yards and Pads			7/16/1991			7/16/1991		N		N
PGDP	0690		RAIMS Unit #1925 \ C-409 Hazardous Waste Pilot Plant	Above Ground Material / Waste/Storage Yards and Pads			7/16/1991			7/16/1991		N		Y
PGDP	0692		RAIMS Unit #1928 \ C-400-B Waste Solution Storage Tank	Tanks/Above Ground Storage Tanks			7/16/1991			7/16/1991		N		N
PGDP	0693		RAIMS Unit #1929 \ C-400-C Nickel Stripper Evaporation Tank	Tanks/Above Ground Storage Tanks			7/16/1991			7/16/1991		N		N

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Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
PGDP	0694		RAIMS Unit #1918 \ KOW Trickling Filter and Leach Field	Liquid Surface Impoundments/Leach Fields			7/16/1991			7/16/1991		N		N
PGDP	0695		RAIMS Unit #1919 \ KOW Burn Area	Waste/Burn Pits			7/16/1991			7/16/1991		N		N
PGDP	3048		RAIMS Unit #2477 \ C-720 Compressor Shop Pit Sump (GW)	Liquid Surface Impoundments/Sumps	2001	2001		2006	2006			N		Y
PGDP	3049		RAIMS Unit #2479 \ Internal Ditches	Surface and Groundwater/Sediments								N		Y
PGDP	3051		RAIMS Unit #2436 \ C-337 PCB Waste Staging Area	Above Ground Material / Waste/Storage Yards and Pads								N		N
PGDP	3058		RAIMS Unit #2629\C-747-C Oil Land Farm (SS)	Dispersed Surface Contamination/Land Farms	2002	2002		2002	2002			N		Y

Technology Needs

Site Need Code: **ORBW-12a**

Site Need Name: **Reactive/Explosive Waste Methods**

Focus Area Work Package ID: **SS-10**

Focus Area Work Package: **Hot Spot Removal**

Focus Area: **SCFA**

Agree with Technology Link: **N**

Benefits (Cost, Risk Reduction, Both): **Both**

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Technology Needs

Site Need Code: ORBW-13a
Site Need Name: Hot Spot Retrieval
Focus Area Work Package ID: SS-10
Focus Area: SCFA
Benefits (Cost, Risk Reduction, Both): Both

Focus Area Work Package: Hot Spot Removal
Agree with Technology Link: Y

Technologies

Dig Face Characterization
Delineating Contamination in Soils

Cost Savings (in thousands of dollars)

0
0

Range of Estimate

Site Need Code: ORBW-14a
Site Need Name: Retrieved Waste Sorting
Focus Area Work Package ID: SS-10
Focus Area: SCFA
Benefits (Cost, Risk Reduction, Both): Both

Focus Area Work Package: Hot Spot Removal
Agree with Technology Link: Y

Technologies

Delineating Contamination in Soils

Cost Savings (in thousands of dollars)

0

Range of Estimate

Site Need Code: ORBW-19a
Site Need Name: Remediation of Secondary Soil Contamination
Focus Area Work Package ID: SS-08
Focus Area: SCFA
Benefits (Cost, Risk Reduction, Both): Both

Focus Area Work Package: Saturated Zone Treatment Systems
Agree with Technology Link: Y

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

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Technology Needs

Lasagna	0
Dynamic Underground Stripping	0
Subsurface Barrier Emplacement	0
Remediation of DNAPLs in Low Permeability Soils	0
Innovative DNAPL Characterization Technologies	0
Hydrous Pyrolysis/Oxidation	0
In Situ Stabilization and Retrieval System	0
Continuous Perimeter Containment Barrier System	0
Delineating Contamination in Soils	0

Site Need Code: ORHY-01b

Site Need Name: Dense Non-aqueous Phase Liquid (DNAPL) Source Characterization

Focus Area Work Package ID: SS-02

Focus Area Work Package: Barriers for Containmant and Control

Focus Area: SCFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

SEAMIST	0
Innovative DNAPL Characterization Technologies	0
Fiber Optic Probe for Trichloroethylene in Soil and Groundwater	0

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Technology Needs

Field Raman Spectrograph	0
Field Demonstration of a DNAPL Source Zone Delineation Technology	0
FLUTE System for CPT	0

Site Need Code: ORHY-02b

Site Need Name: Low-Waste Volume Exploration and Monitoring

Focus Area Work Package ID: SS-01

Focus Area Work Package: Characterization, Monitoring, Modeling and Analysis

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

	<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
Environmental Measurement While Drilling	0	
Directional Drilling	0	
Rapid Sampling Using 3M Membrane Technology	0	

Site Need Code: ORHY-03b

Site Need Name: Noninvasive Technologies to Identify Leaking Utilities

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

	<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
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Technology Needs

Site Need Code: ORHY-04b

Site Need Name: Volatile Organic Compound (VOC) Monitoring and Detection

Focus Area Work Package ID: SS-01

Focus Area Work Package: Characterization, Monitoring, Modeling and Analysis

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

	<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
Direct Sampling Ion Trap Mass Spectrometer System (DSITMS)	0	
In Situ Measurement of Volatile and Semi-Volatile Organic Compounds in the Subsurface	0	
Fiber Optic Probe for Trichloroethylene in Soil and Groundwater	0	
Field Demonstration of a DNAPL Source Zone Delineation Technology	0	

Site Need Code: ORHY-012b

Site Need Name: Active In Situ Dissolved-Phase Treatment Systems

Focus Area Work Package ID: SS-08

Focus Area Work Package: Saturated Zone Treatment Systems

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

	<u>Cost Savings (in thousands of dollars)</u>	<u>Range of Estimate</u>
Lasagna	0	
Subsurface Barrier Emplacement	0	
Passive Reactive Barrier	0	
Selective In Situ Sorption of Technetium from Groundwater	0	
Simultaneous Treatment of Chlorinated Organics, Metals and Radionuclides with Bimetals and Complexing Acids - Surfactant Applications	0	

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Technology Needs

Site Need Code: ORHY-013b

Site Need Name: Reactive Barrier Treatment Systems

Focus Area Work Package ID: SS-02

Focus Area Work Package: Barriers for Containmant and Control

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Subsurface Barrier Emplacement

0

Subsurface Barrier Emplacement

0

Passive Reactive Barrier

0

Passive Reactive Barrier

0

Directional Drilling

0

Hydraulic Fracturing

0

Site Need Code: ORHY-014b

Site Need Name: Containment and In Situ Stabilization of Contaminated Sediments

Focus Area Work Package ID: SS-02

Focus Area Work Package: Barriers for Containmant and Control

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Subsurface Barrier Emplacement

0

Continuous Perimeter Containment Barrier System

0

Verification and Monitor System for Subsurface Barrier

0

Long-Term Surface Barriers

0

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Technology Needs

Site Need Code: ORHY-015b

Site Need Name: Vapor Phase Treatment Alternatives

Focus Area Work Package ID:

Focus Area Work Package:

Focus Area:

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Site Need Code: ORHY-016a

Site Need Name: Hydrologic Containment and Control

Focus Area Work Package ID: SS-02

Focus Area Work Package: Barriers for Containmant and Control

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Both

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Subsurface Barrier Emplacement

0

Continuous Perimeter Containment Barrier System

0

Cement Bentonite Thin Diaphragm Wall

0

Long-Term Surface Barriers

0

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Technology Needs

Site Need Code: ORHY-19b

Site Need Name: Dense Non-Aqueous Phase Liquid (DNAPL) Source Containment

Focus Area Work Package ID: SS-02

Focus Area Work Package: Barriers for Containmant and Control

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Subsurface Barrier Emplacement

0

Site Need Code: ORHY-20b

Site Need Name: Dense Non-Aqueous Phase Liquid (DNAPL) Source Treatment

Focus Area Work Package ID: SS-08

Focus Area Work Package: Saturated Zone Treatment Systems

Focus Area: SCFA

Agree with Technology Link: Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies

Cost Savings (in thousands of dollars)

Range of Estimate

Dynamic Underground Stripping

0

Passive Reactive Barrier

0

Hydrous Pyrolysis/Oxidation

0

Technology Deployments

Deployment Year

Deployment Status

Planned

Forecast

Actual Date

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Technology Deployments

		Deployment Year		
<u>Deployment Status</u>		<u>Planned</u>	<u>Forecast</u>	<u>Actual Date</u>
Technology Name:	Lasagna			
Potential Deployment		2000		
Technology Name:	Selective In Situ Sorption of Technetium from Groundwater			
Potential Deployment		2001		
Technology Name:	Simultaneous Treatment of Chlorinated Organics, Metals and Radionuclides with Bimetals and Complexing Acids - Surfactant Applications			
Potential Deployment		2001		